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APPLICATION NO.	FIL	ING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/664,331	09/16/2003		Laurent Humeau	397272000401	4194
25225	7590 11/29/2005		EXAMINER.		
MORRISO 12531 HIGH		RSTER LLP	PARKIN, JEFFREY S		
SUITE 100	. BLOTT D	KI V L		ART UNIT	PAPER NUMBER
SAN DIEGO	, CA 921	130-2040	1648		

DATE MAILED: 11/29/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)						
		10/664,331	HUMEAU, L, ET AL.						
	Office Action Summary	Examiner	Art Unit						
		Jeffrey S. Parkin, Ph.D.	1648						
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply									
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE <u>01</u> MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).									
Status									
1)🖂	Responsive to communication(s) filed on 19 Se	eptember 2005.							
	•—	action is non-final.							
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is								
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.									
Dispositi	on of Claims								
5) 6) 7)	Claim(s) 1-30,33-64,66-71 and 83-93 is/are pe 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) is/are rejected. Claim(s) is/are objected to. Claim(s) 1-30, 33-64, 66-71, 83-93 are subject	vn from consideration.	uirement.						
Applicati	on Papers								
10)	The specification is objected to by the Examine The drawing(s) filed on is/are: a) accomplicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Example 2.	epted or b) objected to by the ledge of bythe ledge	e 37 CFR 1.85(a). jected to. See 37 CF						
Priority u	ınder 35 U.S.C. § 119								
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. Certified copies of the priority documents have been received in Application No Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 									
Attachmen	t(s) te of References Cited (PTO-892)	4) Interview Summary	(PTO-413)						
2) Notice 3) Inform	te of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) or No(s)/Mail Date	Paper No(s)/Mail Da	ate	O-152)					

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Applicants: Humeau, L, et al. Filing Date: 09/16/2003

Restriction Requirement

Status of the Claims

Acknowledgement is hereby made of receipt and entry of the communication filed 19 September, 2005. Claims 1-30, 33-64, 66-71, and 83-93 are pending in the instant application. In response to applicants' comments, the following supplemental restriction requirement is being set forth.

35 U.S.C. § 121

Restriction to one of the following inventions is required under 35 U.S.C. § 121:

- a. Group I, claim(s) 1-30, 33-64, 66-71, 83, 84, and 88-93, drawn to in vitro/ex vivo methods of transducing primary cells of the hematopoietic system using a lentiviral vector and cell surface binding molecule, classified in class 435, subclass 456.
- b. Group II, claim(s) 85, drawn to a method for the introduction of transduced cells into a living subject, classified in class 435, subclass 325.
- c. Group III, claim(s) 86, drawn to a method for the introduction of transduced cells into a tissue or organ, classified in class 435, subclass 325.
- d. Group IV, claim(s) 87, drawn to a method for the introduction of transduced cells into a blastocyst, classified in class 435, subclass 325.

The inventions are distinct, each from the other because of the following reasons:

Inventions I-IV are all unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (M.P.E.P. § 806.04 and § 808.01). In the instant situation each of the identified groups is directed toward a different method that accomplishes different scientific

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objectives and employs disparate methodology steps and scientific reagents. For instance, Group I is simply directed toward a method of stably transducing hematopoietic stem cells by administering a vector and compound. However, Group II involves the administration of a transduced cell into a patient. Clearly these methodologies achieve different scientific objectives and employ different reagents/protocols.

Applicants are further advised that the following restriction requirement also applies to Group I: 1) applicants are required to identify and elect a single cell target (i.e., CD4, CD8, CD34, dendritic cell, etc.); and 2) applicants are required to identify and elect a single cell surface binding molecule polypeptide, lipid, nucleic acid, carbohydrate, ion, FLT-3 ligand, TPO ligand, KIT ligand; antibodies with the specificity of FLT-3L, TPOL, or KITL, CD3 ligand, CD28 ligand, CD25 ligand, CD71 ligand, CD69 ligand, antibodies with the specificity of CD3 ligand, CD28 ligand, CD25 ligand, CD71 ligand, or CD69 ligand, CD34, CD28, GM-CSF, IL-4, TNF-alpha, antibodies with the specificity of CD34, CD28, GM-CSF, IL-4, or TNF-alpha, etc.). Each cell surface binding molecule is structurally and functionally distinct and will necessitate independent searches for each molecule. Each of the identified target cell populations has unique genotypic/phenotypic characteristics that necessitate different transduction strategies and requires searches that are not coextensive in nature. Accordingly, each combination of cell surface binding molecule and cell target constitutes an independent and distinct invention.

Applicants are further advised that group I also contains numerous linking claims (i.e., claim 1 would link all of the aforementioned inventions). Upon the identification of a cell target and cell surface binding molecule, applicants should also

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clearly identify those generic claims that read on the elected invention. See M.P.E.P. § 809.03. The restriction requirement of the linked inventions is subject to the nonallowance of the linking claim(s). Upon the allowance of the linking claim(s), restriction requirement as to the linked inventions shall be withdrawn and any claim(s) depending from or otherwise including all the limitations of the allowable linking claim(s) will be entitled to examination in the instant application. Applicant(s) are advised that if any such claim(s) depending from or including all the limitations of the allowable linking claim(s) is/are presented in a continuation or divisional application, the claims of the continuation or divisional application may be subject to statutory and/or nonstatutory double provisional patenting rejections over the claims of the instant application. restriction requirement is withdrawn, the provisions of 35 U.S.C. § 121 are no longer applicable. In re Ziegler, 44 F.2d 1211, 1215, 170 U.S.P.Q. 129, 131-32 (C.C.P.A. 1971). See also M.P.E.P. § 804.01.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, recognized divergent subject matter, and require separate searches, restriction for examination purposes as indicated is proper.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 C.F.R. § 1.143). Applicant is also advised that the claims should be amended to reflect the election, where necessary.

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37 C.F.R. § 1.48(b)

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 C.F.R. § 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 C.F.R. § 1.48(b) and by the fee required under 37 C.F.R. § 1.17(i).

Correspondence

Any inquiry concerning this communication should be directed to Jeffrey S. Parkin, Ph.D., whose telephone number is (571) 272-0908. The examiner can normally be reached Monday through Thursday from 10:30 AM to 9:00 PM. A message may be left on the examiner's voice mail service. If attempts to reach the examiner are unsuccessful, the examiner's supervisor, James C. Housel, can be reached at (571) 272-0902. Direct general status inquiries to the Technology Center 1600 receptionist at (571) 272-1600. Informal communications may be submitted to the Examiner's RightFAX account at (571) 273-0908.

Applicants are reminded that the United States Patent and Office (Office) requires most patent Trademark correspondence to be: a) faxed to the Central FAX number (571-273-8300) (updated as of July 15, 2005), b) hand carried or delivered to the Customer Service Window (now located at the Randolph Building, 401 Dulany Street, Alexandria, VA 22314), c) mailed to the mailing address set forth in 37 C.F.R. § 1.1 (e.g., P.O. Box 1450, Alexandria, VA 22313-1450), or d) transmitted to the Office using the Office's Electronic Filing System. This notice replaces all prior Office notices specifying a specific fax number or hand carry address for certain patent related correspondence. further information refer to the Updated Notice of Centralized Delivery and Facsimile Transmission Policy for Patent Related Correspondence, and Exceptions Thereto, 1292 Off. Gaz. Pat. Office 186 (March 29, 2005).

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see

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http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Respectfully,

Jeffrey S. Parkin, Ph.D. Primary Examiner

Art Unit 1648

27 November, 2005